

Patent Claims

1-13. (Canceled)

14. A system for connecting a cellular telephone located in a mobile vehicle to a stationary mobile telephone network, comprising:

5 at a stationary position, (a) a device for transmitting and receiving IP data to and from a corresponding device of the vehicle, (b) a device for converting the IP data into mobile radio data and conversely, and (c) a device for transmitting and receiving the mobile radio data to and from the stationary mobile radio network; and

10 on board the vehicle, (d) a device for transmitting and receiving IP data to and from a ground station, (e) at least one mobile radio base station, and (f) a device for converting the mobile radio data into the IP protocol and conversely.

15. The system of claim 14, wherein the mobile radio base station forms a mobile radio pico cell on board the vehicle.

16. The system of claim 14 or 15, wherein the connection between the device (b) and the device (c) is established via the intranet of the vehicle.

17. The system of claim 14 or 15, wherein the device (b) comprises an IP call manager.

18. The system of claim 14 or 15, wherein the device (c) is configured for transmitting or receiving via one or more switching stations.

20 19. The system of claim 18, wherein the switching stations comprise satellites.

20. The system of claim 14 or 15, wherein the device (d) is configured for transmitting or receiving via one or more switching stations.

21. The system of claim 20, wherein the switching stations comprise satellites.

22. The system of claim 14 or 15, wherein the connection between the device (d) and the device (e) is established via the Internet.

23. The system of claim 20, wherein the connection between the device (d) and the device (e) is established via the Internet.

24. The system of claim 14 or 15, wherein the device (e) comprises an IP call manager.

5 25. The system of claim 14 or 15, wherein the device (f) transmits or receives the mobile radio data wirelessly or wire-connected to or from the stationary mobile radio network.

26. The system of claim 14 or 15, comprising a plurality of devices (e) and (f) which are arranged spatially spaced apart in areas of different stationary mobile radio
10 networks.

27. A method for connecting a cellular phone located in a mobile vehicle to a stationary mobile radio network, comprising:

- (a) logging-in the cellular phone at a local mobile radio cell which is formed by a mobile radio base station arranged on board the vehicle;
- 15 (b) converting the mobile radio data into IP data and conversely;
- (c) transmitting or receiving the IP data to or from a ground station;
- (e) converting the IP data into mobile radio data and conversely; and
- (f) transmitting or receiving the mobile radio data to or from the stationary
mobile radio network.

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